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| APPLICATION NO.   | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.       | CONFIRMATION NO.       |
|---|-------------|----------------------|---------------------------|------------------------|
| 10/524,683  | 02/15/2005  | Young-Tac Park       | 5325-111US/P29709USA      | 8312                   |
| 20802 7590 07/13/2007<br>SYNNESTVEDT LECHNER & WOODBRIDGE LLP<br>P O BOX 592<br>112 NASSAU STREET<br>PRINCETON, NJ 08542-0592 |             |                      | EXAMINER<br>CHAN, RICHARD |                        |
|   |             |                      | ART UNIT<br>2618          | PAPER NUMBER           |
|   |             |                      | MAIL DATE<br>07/13/2007   | DELIVERY MODE<br>PAPER |

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

|                              |                                      |  |  |
|------------------------------|--------------------------------------|--|--|
| <b>Office Action Summary</b> | <b>Application No.</b><br>10/524,683 | <b>Applicant(s)</b><br>PARK, YOUNG-TAE |  |
|                              | <b>Examiner</b><br>Richard Chan      | <b>Art Unit</b><br>2618                |  |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 28 November 2006.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) \_\_\_\_\_ is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-3 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 28 November 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### *Response to Arguments*

1. Applicant's arguments filed 11/28/06 have been fully considered but they are not persuasive.

2. In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, the examiner cites the Tanishita reference (US 6,221,526) to disclose the connector structure and the Emmert reference (US 6,049,725) discloses a LED indicator 120. The applicant states that the Emmert reference discloses that the indicator is 120 could be, for example a multi-color LED providing an indication of IN USE, ROAM, NO SVC, or other states, however the examiner points the applicant to Col.5 line 33-35 and line 40-43 wherein Emmert specifically discloses wherein the LED is used to display the charging status of the mobile device.

With respect to applicant's arguments that the Tanishita/Emmert combination does not disclose a protective window that covers the LED to protect it from harm during use. However upon inspection of the Emmert reference, Emmert discloses wherein a

light pipe used to contain the LED element, therefore the LED is visible in the open and closed position. This configuration will also protect the LED from harm during use.

(Col.5 line 42-46)

### ***Drawings***

3. The drawings were received on 11/28/06. These drawings are acceptable.

### ***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tanishita (US 6,221,526) in view of Emmert (US 6,049,725).

With respect to claim 1, Tanishita discloses the connector for charging mobile phone comprising a connecting terminal formed to protrude from a body for coupling to or separating or from a mobile phone by a projection 4b in a groove 6a, the projection 4b formed, as one body, with an adjustment portion 58 disclosed within the prior art in Fig.5 adjustable by an user, and upper and lower covers coupled by a bolt through a bolt inserting groove, however Tanishita does not specifically disclose wherein said connector comprises a light emitting element disposed on a printed circuit board that

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electrically connects to the mobile phone by a pin, the light emitting element changing its color from yellow, red and green in order according to an amount of a charging voltage so that the user can acknowledge the state of charging.

The Emmert reference however discloses wherein an LED 120 in Fig.6 provides information to the user by a multi-color LED in which the color of the light can change based on charge status.

It would have been obvious to one of ordinary skill in the art to implement the multicolor LED light indicator as disclosed by Emmert with the charger structure disclosed by Tanishita in order to visually inform the user what the status of the battery on the cellular phone is currently on.

With respect to claim 2, Tannishita and Emmert combined disclose the connector for charging the mobile phone in accordance with claim 1, Tannishita continues to disclose wherein said light emitting element 120 is disposed on the print circuit board by the pin for electrically connecting to the mobile phone 108.

With respect to claim 3, Tannishita and Emmert combined disclose the connector for charging the mobile phone in accordance with claim 1, Emmert continues to disclose wherein said upper cover forms a hole for securing a window by ultrasonic or thermal fusion. Since the LED is visible to the user through a window at point 120, it is understood there is a hold there.

***Conclusion***

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

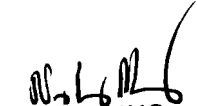
7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard Chan whose telephone number is (571) 272-0570. The examiner can normally be reached on Mon - Fri (9AM - 5PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on (571)272-7882. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Richard Chan  
Art Division 2618  
7/5/07



NAY MAUNG  
SUPERVISORY PATENT EXAMINER